

What is claimed is:

1. A photovoltaic element module comprising at least two electrically connected photovoltaic elements to each other, wherein a medium capable of absorbing at least 10% or more of a light having a wavelength of 0.4 μm to 2.0 μm is provided on an electric connection portion of the photovoltaic element.

2. A photovoltaic element module according to Claim 1, wherein the photovoltaic element has at least a conductive substrate and a semiconductor layer.

3. A photovoltaic element module according to Claim 1, wherein the medium is a color ink.

4. A photovoltaic element module according to Claim 1, wherein the medium is a film having a thickness of 5 μm to 30 μm .

5. A photovoltaic element module according to Claim 1, wherein the medium consists of at least one of Fe, Ni, and solder.

6. A photovoltaic element module according to Claim 1, wherein the medium absorbs 10% or more of a laser light having a wavelength of 1.06 μm .

7. A photovoltaic element module according to Claim 1, wherein in the electric connection portion, each of metal members provided on each of the photovoltaic elements are electrically connected to each other.

8. A photovoltaic element module according to Claim 7, wherein the metal members comprise at least one of gold, silver, copper, stainless, and aluminum as a main component.

9. A method of producing a photovoltaic element module, which comprises a step of electrically connecting at least two photovoltaic elements to each other, wherein the step is a step of electrically connecting a first and a second photovoltaic elements by providing on a part of the first photovoltaic element a medium capable of absorbing at least 10% or more of a light having a wavelength of 0.4 μm to 2.0 μm and irradiating the medium with a laser light having a wavelength of 0.4 μm to 2.0 μm .

10. A method of producing a photovoltaic element module according to Claim 9, wherein the medium is a color ink.

11. A method of producing a photovoltaic element

module according to Claim 9, wherein the medium is a film having a thickness of 5 mm to 30 μ m.

12. A method of producing a photovoltaic element module according to Claim 9, wherein the medium consists of at least one of Fe, Ni, and solder.

13. A method of producing a photovoltaic element module according to Claim 9, wherein a metal member is provided on an electrode portion of the photovoltaic element and wherein the medium is provided on a surface of the metal member.

14. A method of producing a photovoltaic element module, which comprises a step of electrically connecting at least two photovoltaic elements to each other, wherein each of the photovoltaic element has at least a conductive substrate, a semiconductor layer, and a light-transmissive electrode, and wherein the step is a step of electrically connecting a conductive substrate of a first photovoltaic element and a light-transmissive electrode of a second photovoltaic element to each other by laser welding.

15. A method of producing a photovoltaic element module according to Claim 14, wherein a metal member is are provided on the conductive substrate of the first

photovoltaic element and/or the light-transmissive
electrode of the second photovoltaic element, wherein a
medium capable of absorbing a laser light is provided
on the metal member, and wherein the medium is
5 irradiated with the laser light to carry out the laser
welding.

16. A method of producing a photovoltaic element
module according to Claim 15, wherein the medium
10 absorbs 10% or more of a light having a wavelength of
0.4 μm to 2.0 μm .

17. A non-contact treatment method of carry out
treatment by using an energy supply means for supplying
15 energy, which comprises placing a non-adhering medium
capable of absorbing the energy on a material to be
treated, and irradiating the non-adhering medium with
the energy.

18. A non-contact treatment method according to
20 Claim 17, wherein a surface of the non-adhering medium
closely contacting the material to be treated has a
surface roughness of 0.1 nm to 5,000 nm in mean square.

19. A non-contact treatment method according to
25 Claim 17, wherein the non-adhering medium has at least
a polymer film.

20. A non-contact treatment method according to Claim 17, wherein the non-adhering medium is a magnetic tape.

5 21. A non-contact treatment method according to Claim 20, wherein a magnetic surface of the magnetic tape is closely contacted with the material to be treated.

10 22. A non-contact treatment method according to Claim 17, wherein the non-adhering medium absorbs 10% or more of a light having a wavelength of 0.4 μm to 2.0 μm .

15 23. A non-contact treatment method according to Claim 17, wherein the energy is light, heat, or electromagnetic waves.

20 24. A non-contact treatment method according to Claim 17, wherein the non-adhering medium is irradiated with the energy while pressing the non-adhering medium against the material to be treated.

25 25. A non-contact treatment method according to Claim 17, wherein the non-adhering medium is removed by irradiation of the energy.

26. A non-contact treatment method according to Claim 17, wherein the non-adhering medium is removed after the energy irradiation.

5 27. A non-contact treatment method according to Claim 17, wherein the treatment is cutting or welding.

10 28. A non-contact treatment method according to Claim 17, wherein the non-adhering medium is supplied from a roll of the non-adhering medium, and after the energy irradiation, is wound up.

15 29. A non-contact treatment method according to Claim 17, wherein the material to be treated is an electrode of an electric part.

20 30. A non-contact treatment method according to Claim 17, wherein the material to be treated is an electrode of a photovoltaic element.

 31. A non-contact treatment method according to Claim 17, wherein the material to be treated is a material having a high reflectance with respect to energy irradiation.

25 32. A method of producing a photovoltaic element module, which comprises a step of electrically

connecting at least two photovoltaic elements to each other, wherein the step is a step of placing on a part of a first photovoltaic element a non-adhering medium capable of absorbing energy and irradiating the medium with energy to electrically connect the first photovoltaic element and a second photovoltaic element to each other.

10 33. A method of producing a photovoltaic element module according to Claim 32, wherein a surface of the non-adhering medium closely contacting a material to be treated has a surface roughness of 0.1 nm to 5,000 nm in mean square.

15 34. A method of producing a photovoltaic element module according to Claim 32, wherein the non-adhering medium has at least a polymer film.

20 35. A method of producing a photovoltaic element module according to Claim 32, wherein the non-adhering medium is a magnetic tape.

25 36. A method of producing a photovoltaic element module according to Claim 35, wherein a magnetic surface of the magnetic tape is closely contacted with a part of the first photovoltaic element.

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38. A method of producing a photovoltaic element module according to Claim 32, wherein a metal member is provided on an electrode portion of the photovoltaic element and wherein the non-adhering medium is provided on a surface of the metal member.

39. A photovoltaic element module produced by the method of Claim 32 of producing a photovoltaic element module.